

THE TECH

VOL. XXVII. No. 19

BOSTON, MASS., WEDNESDAY, NOVEMBER 13, 1907

PRICE THREE CENTS

ATHLETIC MEETING POORLY ATTENDED.

D. C. McMURTRIE ELECTED MANAGER OF TRACK.

Other Routine Business is Enacted.

At the first meeting of the new Athletic Association Monday afternoon in 26 Rogers, officers and a track manager and an assistant hockey manager were elected. The meeting was poorly attended, barely a quorum being present. This poor attendance, it is said, was due to the insufficient notice given of the meeting.

The members present were: H. E. Allen '08, R. W. Ferris '08, B. L. Gimson '08, G. T. Glover '08, T. W. Orr '08, J. T. Tobin '08, H. H. Howland '08, H. R. Callaway '08, C. W. Whittemore '08, L. Coffin '08, M. R. Scharff '09, A. L. Moses '09, C. W. Gram '09, F. J. Lange '09, W. J. Kelley '09, J. Avery '10, F. B. Avery '10, D. C. McMurtrie '10, W. J. Seligman '11, E. G. Fitzherbert '11, E. Van Tassel '11.

George T. Glover 1908, the originator of the new form of association, was elected president. Carl W. Gram 1909, was elected vice-president and Maurice R. Scharff 1909, was elected secretary. The representatives to the Advisory Council are George T. Glover 1908, Carl W. Gram 1909 and John T. Tobin 1908.

After the election of officers came a lively discussion over the election of the manager of the track team. As R. M. Keeney 1909, who was elected last year as assistant manager, had left school, and had resigned; there was no assistant to elect to the position of manager.

There were, however, three men more or less eligible for the position. They were the men that came out last year in the competition for the place of assistant, J. Avery, B. Reynolds and D. C. McMurtrie, all Sophomores.

The first idea put forward was that an upper classman should occupy the position. After a little discussion, no upper classman was suggested that could take charge of the team. It was then brought forward that D. C. McMurtrie had done all of the work this fall since the opening of the school.

President Glover then called upon John T. Tobin 1908, to give the qualifications of the three men trying for the place last year. Tobin said that Reynolds, Avery and McMurtrie were the candidates and that they were about equal in ability. He said that McMurtrie had done slightly the more work.

Tobin then said that if the position were given to McMurtrie that the latter should hold the place only one year. He held this view because he thought that other candidates ought to have a chance to become manager.

It was then brought out by one of the members that the position should be held at all times by one fitted for the place regardless of personal considerations. The president made the point that at the beginning of next year, the association would decide the matter.

W. J. O'Hearn 1910, was then elected Asst. Mgr. of the Hockey Team. The Fencing Team was then brought up, and it was pointed out there was need of a manager. It was then voted that a call be made for men to try for the position. The matter of electing a manager was laid over to a later meeting after a competition for the place.

R. W. Ferris 1908, spoke on cross country. He said that THE TECH had been a little radical regarding the work of the team. He said that Nickerson had given two days' notice although the letter announcing his withdrawal did not reach Coach Kanaly until shortly before the Harvard race. The work of the team had greatly improved owing to the addition of Gimson and Callaway to the squad.

The next meeting of the association will be announced by postal card to each member.

TECH GRADUATE DISCUSSES PROTOZOA.

PROF. CALKINS, '09, GIVES FIRST OF LOWELL INSTITUTE LECTURES.

New Theories of Much Interest to Sanitary Engineers

"The Lowest Forms of Animal Life" was the subject discussed last evening by Prof. Gary N. Calkins, Ph. D., a graduate of the Institute in the Class of 1890, and Professor of Protozoology at Columbia University, as the opening lecture of his course on the protozoa.

Before the development of the microscope, said Prof. Calkins, it was impossible to distinguish between the protozoa and the protophyte, the minute forms of animal and plant life, so closely do they resemble one another.

The belief and discussion involved in the establishment of the theory of spontaneous generation was described. Redi's methods, which involve the placing of a piece of gauze over decaying meat proved that the minute white worms arose from the lavac deposited by flies. This proof has generally been accepted as final.



GARY N. CALKINS.

Prof. Calkins then told how this experiment assisted in convincing all that animals come primarily from eggs. This was further established through continued improvements in the microscope of Leenwenhoek. His discovery of the bell animalcule or vorticellei was considered at the time to be a great stride in the development of this study of protozoa.

All future allusions to the theory of spontaneous generation were put to rest with the advances made on microscopy by Pasteur. Other naturalists believed these organisms made up of organic particles and this theory gained ground until the advent of the cell theory of animal and plant structure by Schleiden and Schwann. The term protozoa was first used by Hooke, an English naturalist, in connection with living organisms in 1665. Since then it has gained ground and now is generally accepted. Ehrenburg, however, believed these minute structures possessed all the organisms of the higher animals. He was contradicted in his theory by Dujardin, who gave the basis of the modern classification of the protozoa, although he failed to recognize their true cellular structure.

Prof. Calkins spoke of the remarkable endowments of these animals, how they possessed the powers of digestion, assimilation of food particles and reproduction.

He dwelt upon the extreme importance of the knowledge of the habits and characteristics of the protozoa by sanitary engineers and medical men as they are continually found as a source of contamination in water supplies.

TECH SHOW SOON TO BE SELECTED.

COMPETITIONS FOR LYRICS AND MUSIC BEGIN.

Call for Candidates for Management is Issued.

The Tech show is just starting upon what promises to be a successful season. The shows have all been submitted and the decision is practically made and will be announced in a few days. With this announcement will begin the competition for the lyrics. Some of these have already been submitted by the authors of the shows sent in, but the competition will be open to all and the best lyrics picked regardless of who the writers are.

After the lyrics have been selected they will be given out to all who wish to write music which will also be selected by competition.

The other branch of the show, the management, is also now open to competition. There are five places to be filled, two assistant business managers, two assistants in the advertising department and the advertising manager. Freshmen are not eligible for the latter position, but they are for the others, and Sophomores and upper classmen are eligible to all. This is a great chance for anyone, and especially for any Freshman who wishes to try. The business department has charge of all the accounts of the show, and the work of securing ads for the program. The advertising department has charge of the advertising of the show and of all printing connected with it.

Anyone who becomes an assistant manager this year has a chance of becoming the manager of his department next year, and general manager the year after. Macomber, '07, who managed the show last year, started four years ago, in the chorus. He became assistant stage manager the next year, stage manager next and then general manager. Parlin, '07, who managed the show the year before, rose to the position through the business end. There is an exceptional chance this year, as the office of advertising manager is vacant as the man who would have succeeded to it has left the Institute. This is an added reason for a large number of students to come out and try for these positions. Full information will be given at the meeting of candidates which is to be held in 34 Rogers next Tuesday, Nov. 19, at 4 P. M.

TWENTY MEN OUT FOR TEAM.

Cross Country Work is Waking Up.

More than twenty men are trying for the trials to be run off Saturday to pick the team to run at Princeton Nov. 27. The order of finish of the men will be taken; the number picked for the team will depend on the action of the Athletic Association. An attempt is being made to have the trials run on the race track at Readville. This track is one mile around, and six and a quarter laps will be the distance to run.

No doubt the best men in Tech are out for this team, and the man who gets on will have to do some tall running Saturday. This means that a man coming out now will have to do some training this week. Coach Kanaly will be at the Field every day this week to give the men light work. The men who make the team will be given particular attention and training after Saturday.

These colleges have entered teams: Technology, Harvard, Yale, Columbia, Princeton, Univ. of Pennsylvania and Cornell. Each college can enter eighteen men, run ten and have six men score.

The Athletic Association has issued a call for candidates for the position of Manager of the Fencing Team. Members of all classes are eligible but Juniors are especially urged to compete. All interested will report at once to Capt. E. M. Loring, '09.

ENGLISH WORK BEING RAPIDLY DEVELOPED.

SPECIAL NEEDS OF FRESHMEN ARE LOOKED AFTER.

In Sophomore Work, One Shakespeare Play Read and Discussed.

The work of the English Department in the first and second years is rapidly developed and adjusted. The Freshman class has been, on the basis of its earliest written work, divided into sections wherein work of special sort may be provided for the special needs of the respective sections.

A scheme of personal conference whereby each student may in each intermediate period have at least one appointment to talk over his work with his instructor has been extended as far as time permits. These arrangements should offset to an appreciable extent the grave limitations of the large classes and of the gap between teacher and taught, both which difficulties confront all large institutions today.

The Sophomore work in English literature in the first term has been in several courses doubled so that the lectures may cover and the readings represent more completely the earlier periods, especially that of Shakespeare.

A new book of readings, accordingly, has been compiled by Prof. Bates, which includes all the required readings of both terms. The course now provides the reading and the discussion of a play on Shakespeare in class.

The attendance upon Prof. Pearson's course in Argument and Debate, including members of the Civic Club, is a sign of the increasing appreciation by Technology students of their coming responsibilities as leaders and moulders of public opinion and action.

A new member of the department is Mr. Allen French, 1902, Course IX.

MECHANIC ARTS MUST BE ENLARGED.

Dr. Pritchett Was On Committee Which So Decides.

Ex-President Pritchett was one of a special committee which has just reported on the proposed enlargement of the Mechanic Arts High School. This committee consisting of Charles W. Elliott, president of Harvard College; Rev. Fr. Thomas J. Gasson, S. P., president of Boston College, and Dr. Pritchett, is unanimous in its conclusions.

Briefly it finds that the Mechanic Arts High School fills a useful purpose by opening to the youth of Boston new ways towards good livelihood; that the work has shown steady improvement; that added facilities must be furnished if boys are to have opportunities to avail themselves of this form of education; that the need of these increased facilities is more urgent than that of any other specific addition to the school system of Boston; and that therefore it is expedient for the city to proceed with the proposed enlargement without delay.

The Mechanic Arts High School has for years sent more men to the Institute than any other preparatory school.

DR. ALEXANDER TO GIVE THREE TALKS.

Starts Tomorrow at Y. M. C. A. Meeting.

The Rev. Dr. James Alexander, D. D., of The First Presbyterian Church will speak at the Y. M. C. A. meeting in Trinity Parish Hall tomorrow at 1:30. He will give a series of three talks, of which this is the first. Dr. Alexander is a Scotchman with a very pleasant address. He is an entertaining speaker and always "delivers the goods." The men who heard his interesting talks last year will be glad of this opportunity to hear him again.

THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

OFFICE HOURS:

Editor-in-Chief, 30 Rogers.....4-6 Daily
Business Manager, 30 Rogers.....4-6 Daily
Managing Editor, 30 Rogers.....8:30-9 Daily

Contributions are requested from all under graduates, alumni, and officers of instruction.

All communications regarding advertisements should be addressed to the Business Manager. Regarding subscriptions address the Circulating Manager.

Subscription - - - \$1.50 per year in advance.
Single Copies 3 Cents.

Subscriptions within the Boston Postal District and outside of United States must be accompanied by 80 cents.

Wednesday, November 13, 1907.

BUSINESS OPPORTUNITIES.

The men trying for the Business Staff will receive a suitable commission on the advertisements which are secured. The advertisements, however, must conform with a few necessary requirements. They must not have appeared in the last two volumes of THE TECH, and the price must be at a prescribed rate. The fields for foreign advertising offers considerable opportunity for development. It possesses the advantage that it may be worked up at ones convenience, during spare time.

The local advertising is by no means fully covered as yet, so the chances for continuing work along this line are ample, together with no little profit.

R. S. BICKNELL.

SECOND CALL

A second call for candidates for the News Staff of THE TECH is now made, the competition to be decided by the end of next term. The men who desire to enter this competition are requested to meet the Managing Editor in 30 Rogers any day this week from 1.15 to 1.45 P. M.

The work of a man on the News Staff or of a candidate for the News Staff is essentially similar to the work of a reporter on a daily newspaper. He is given assignments to write up various meetings, lectures, athletic events, etc. The aim of THE TECH this year is to make this work as light as possible, to give each man as little to cover as possible, as quality will be considered more than quantity.

Each man will be changed frequently from one class of work to another in order that the Board of Editors may learn the field for which he is best adapted. Appointment to the News Staff in the Freshman year will lead to election to the Staff of Associate Editors in the Sophomore year when the work will become more editorial than reportorial.

From the Associate Editors will be chosen the men, who in their Junior and Senior years will compromise the Board of Editors. Throughout this competition the best man will get the vacant place, and the larger the number of men out the more time will a man have to do the highest quality of work.

W. FRED DOLKE, JR.,
Managing Editor.

COMMUNICATIONS.

To Editor and Student Body:-

Everyone is aware that the Institute life lacks first, social intercourse between the student; second, a plan to acquaint the student with the different problems which are being solved in the world; third, a plan to introduce to the students as many of the country's great men as possible, and last but not least, a plan to make the students stronger in their beliefs toward their Creator.

The Catholic Club, recognizing the fact that it would be impossible to make up these defects in the case of all Institute men, has adopted the plan of first eliminating these faults among its own members. It holds meetings of a strictly social value, and general educational value, and well known and competent men are chosen to speak at these meetings, on subjects which are of special interest to everyone.

In the past students have not taken advantage of these meetings. It is hoped that everyone will turn out at the meetings this year and derive im-

mense benefit from them. Every Institute man is invited to attend if he at all desires to do so.

F. M. HEIDELBERG,
Secretary Catholic Club.

The Editor of THE TECH:-

The Civic Club desires to bring to the attention of Tech men an opportunity afforded by the Good Government Association of Boston. The Boston Good Government Association was formed in 1903. Its governing body is an executive committee made up of delegates from the Boston Chamber of Commerce, the Merchants' Association, the Bar Association, the Associated Board of Trade, and the Real Estate Exchange.

The purpose of the Association is to awaken public interest in city affairs and to secure the election of honest and capable men, regardless of party. It has organized Ward Committees in every ward. Its Committee of Public Meetings supplies speakers for all sorts of occasions. It has carried on many special investigations of city departments, the most notable being the so-called "Fenway Scandal." It publishes a monthly bulletin called "City Affairs." It has done a large work in bringing out non-voters to the polls. The central piece of work, perhaps, is the publication of records of candidates for municipal office.

The Association has opened an account with every man in Boston municipal life. Each year it interviews, investigates, and writes up every candidate for municipal office. These records are mailed to every voter in the city. The work is carried on by a corps of about one hundred volunteer investigators, mostly young business and professional men and some students from the various schools about Boston. In past years a number of Tech students have aided in this work by acting as investigators. This year an appeal has been made for the help of Tech men. The undersigned members of the Civic Club will be glad to explain the nature of the service desired, and to put any one who is interested in touch with the Association. As to the general meeting of the investigators and the preliminary explanation of the work will occasion, all who are willing to lend a hand should com-

(Continued on page 3.)

THE TECH will pay five cents each for the first twenty-five copies in good condition of each Nos. 1 & 11, Volume 27 appearing on Oct. 2 and Oct. 25 respectively.

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COMMUNICATIONS.

(Continued from page 2.)
municate at once with either of the
subscribers.

One of the hopes of improving the con-
dition of our American cities, lies in the
interest in political affairs on the part
of men who come each year from our
many institutions of learning. The op-
portunity is, then, for the Tech man,
one of valuable experience and real ser-
vice.

J. G. REID,
President of the Civic Club.
Professor H. L. SEAVER.

CIVICS DEBATE TONIGHT.

Men Urged to Come and Listen to
Discussion.

The Civic Club has its next debate in
16 Rogers tonight at 7.30 P.M. The
subject is, "Resolved: That the United
States should retain the Philippines."

Those who come need not take an
active part in the discussion and so
no one need keep away from lack of
knowledge or preparation of the sub-
ject. The value of learning how to
speak is so well known that all Tech
men who mean to become broad gauge
engineers should turn up.

ALUMNI.

Robert B. Alling, ex-'10, is now a
Freshman at Amherst.

Theodore B. Merrick, instructor in
woodwork and foundry-work, is seriously
sick at his home in Arlington.

Professor C. E. A. Winslow will give
an illustrated lecture at the Bullfinch
Place Church Nov. 20th on "The Health
of the City."

Word has been received of the death
of A. Sydney Warren, '88, III, at Buf-
falo of heart failure.

CATHOLIC CLUB PLANS.

Are to Give Midyear Dance.

At a short business meeting last night
in 16 Rogers, the Catholic Club de-
cided to give a dance after the mid-year
examinations to stir things up. Father
McCarthy, from the Boston Cathedral
Parish, gave a short address setting forth
the purposes of the club. William G.
Keefe '10, was elected a member of the
Executive Committee, to fill a vacancy
caused by last year's graduation.

'06 MEN CHANGE ADDRESSES.

W. S. Cayless, Mexican Smelting &
Refining Co., Tecapulco, Guerrero, Mex-
ico.

A. M. Chielesler, 2321 Madison Sq.,
Station A, Philadelphia, Pa.

Geo. L. Davenport, Jr., Division En-
gineer, Santa Fe Coast Line, San Berna-
dino, Cal.

Theodore Dissel, 215 Newbury St., Bos-
ton.

E. B. Evans, Guaka Co., Johnson City,
Tenn.

Wm. C. Furer, Dept. Yards and Docks,
U. S. Navy Yard, New York.

G. R. Guernsey, 27 Eaton St., Win-
chester, Mass.

C. E. Hamilton, Consol Car Heating
Co., New York.

Wm. J. Knapp, 600 Rebecca St., Wil-
kingsburg, Pa.

Harold Morse, 200 Cedar St., Newton
Lower Falls, Mass.

H. S. Philbrick, University of Mis-
souri, Columbia, Mo.

C. D. Richardson, 14 Pratt St., Allston,
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J. C. Root, Veta Colorado Mining Co.,
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83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to The TECHNOLOGY REVIEW, 83 Newbury St., Boston.

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BOSTON

CALENDAR.

Wednesday, Nov. 13.

1:00 P. M. Missouri Club Meeting in 33 Rogers.

7:30 P. M. Civic Club Meeting in 16 Rogers.

Thursday, Nov. 14.

4:00 P. M. Banjo Club Rehearsal in 33 Rogers.

4:00 P. M. Glee Club Rehearsal at the Union.

8:00 P. M. Society of Arts Meeting in 22 Walker.

Friday, Nov. 15.

4:00 P. M. Mandolin Club Rehearsal in 33 Rogers.

PROF. LOWELL EXPLAINS KNOTS.

Advances New Theory on Saturn's Rings.

A new theory in regard to knots on Saturn's rings has been formulated by Percival Lowell, non-resident professor of astronomy at the Institute. After close observation, Prof. Lowell has discovered that the knots are caused because some of the loose particles of matter, which massed together from the rings, are forced out of the general plans of the system by collision with other particles.

NOTICES.

TECHNIQUES WANTED.—Will pay good price for last six volumes of Technique. Box 52, Cage.

FENCING.—All those wishing to try for the position of Manager of the Fencing Team will report at once to Capt. E. M. Loring, '09.

1909 Class dinner will be held in the Union Saturday night at 6.30. Every '09 man who likes a good time will be there. Tickets may be obtained from committee, A. L. Moses (chairman), A. L. Dickerman and C. Gram, until Friday noon. 50cents. No tickets will be sold at door.

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

WANTED.—Someone to take notes on the Friday lectures in "Chem. B." Address XYZ, Tech.

WANTED.—At once, a flat top desk with drawers. State price and condition. Apply at 30 Rogers.

SLIDE RULE WANTED.—A good slide rule and slide rule instruction book wanted. Leave a note at Box 24, the Cage.

LOST.—Will the man who found a plain gray sweater at the Field on Friday please notify H. I. Pearl, Cage.

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